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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Brian Chess

NetLedger 709

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12/30/2009

Robert Moll
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EXAMINER

GOLD, AVI M

ART UNIT

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/071,496	Applicant(s) CHESS ET AL.	
	Examiner AVI GOLD	Art Unit 2457	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 November 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This action is responsive to the RCE amendment filed on November 24, 2009. Claims 1, 5, 6, 9, 15, and 18 were amended. Claims 19-22 were added. Claims 1-18 are pending.

Response to Amendment

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobs et al., U.S. Patent No. 6,785,769 to, further in view of Gao et al., U.S. Patent Publication No. 2002/0032701.

As to claim 1, Jacobs teaches a client-side caching system, comprising:
a client for issuing a request based on user selection for a resource on a server (col. 4, lines 39-40, Jacobs discloses a client requesting sent to a server); and
a server for receiving the request and sending a response including a cookie, wherein the cookie value represents the last version of the resource, and wherein the

cookie value is attached to the request for the resource and the client requests the resource with the appended cookie value so that if the last version of the resource is in the client cache, the resource is retrieved from client cache rather than from the server, and if not, is retrieved from the server (col. 4, lines 10-54, Jacobs discloses a client making requests that include a cookie, the cookie value being updated to properly retrieve data from the client cache or the server is necessary).

Jacobs fails to teach the limitation further including a script sent to a client and the use of client-side script that automatically re-requests a resource.

However, Gao teaches independent update and assembly of web page elements (see abstract). Gao teaches a script sent to a client and a client side script that automatically requests updated data (paragraph 47-49).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Jacobs in view of Gao to use a script sent to a client and the use of client-side script that automatically re-requests a resource. One would be motivated to do so because it is more efficient for the script to run on the client.

Regarding claim 2, Jacobs teaches the client-side caching system of claim 1, wherein the resource is a web page, the resource is located at a URL, and the client is a web browser with a browser cache (col. 4, lines 10-15).

Regarding claim 3, Jacobs teaches the client-side caching system of claim 1, wherein the response includes a non-displayed relatively small page and the cookie is

in a response header and the client-side script is in the entity body of the response (col. 4, lines 25-36).

Regarding claim 4, Jacobs teaches the client-side caching system of claim 1, wherein the client-side script that appends the cookie value to the request is embedded in a displayed page (col. 8, lines 10-16).

Regarding claim 5, Jacobs teaches a server for a client-side caching system, comprising:

a client for issuing a request based on user selection for a resource on a server;
and

a server for receiving the request and sending a response including a cookie, wherein the cookie value represents the last version of the resource, and wherein the cookie value is attached to the request for the resource and the client requests the resource with the appended cookie value so that if the last version of the resource is in the client cache, the resource is retrieved from client cache rather than from the server, and if not, is retrieved from the server (col. 4, lines 10-54).

Jacobs fails to teach the limitation further including a script sent to a client and the use of client-side script that automatically re-requests a resource.

However, Gao teaches a script sent to a client and a client side script that automatically requests updated data (paragraph 47-49).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Jacobs in view of Gao to use a script sent to a client and the use of client-side script that automatically re-requests a resource. One would be motivated to do so because it is more efficient for the script to run on the client.

Regarding claim 6, Jacobs teaches the server of claim 5, wherein the server includes a web server for listening to client requests, the resource is a web page at a URL, and the client-side script appends the cookie value to the URI of the web page request ed to form a rewritten URL and causes the client to automatically re-request the resource with the written URL, and an application server for creating the cookie and inserting the cookie into a response header and inserting the client-side script into the entity body of the response (Jacobs, col. 4, lines 10-15; Gao, paragraphs 47-49).

Regarding claim 7, Jacobs teaches the server of claim 6, wherein the server sets the cookie value by determining the last modified time of each page in the same class as the page which is the subject of the request, and sets the cookie value to the maximum value of the last modified times (col. 4, lines 10-36).

Regarding claim 8, Jacobs teaches the client-side caching system of claim 2, wherein the server sets the cookie value by determining the last modified time of each web page in the same class as the web page which is the subject of the request, and

sets the cookie value to the maximum value of the last modified times (col. 4, lines 10-36).

Regarding claim 9, Jacobs teaches a client-side caching system, comprising:
a client for issuing a request based on a user selection for a resource stored on a server and for receiving a server response including a cache control object, wherein the cache control object represents the correct version of the resource, the cache control object value attached to the request for the resource, and without another user selection for the resource causes the client to request the resource with the appended cache control object value so that if the correct version of the resource is in the client cache, the resource is retrieved from the client cache rather than from the server, and if not, the resource is retrieved from the server (col. 4, lines 10-54).

Jacobs fails to teach the limitation further including a script sent to a client and the use of client-side script that automatically re-requests a resource.

However, Gao teaches a script sent to a client and a client side script that automatically requests updated data (paragraph 47-49).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Jacobs in view of Gao to use a script sent to a client and the use of client-side script that automatically re-requests a resource. One would be motivated to do so because it is more efficient for the script to run on the client.

Regarding claim 10, Jacobs teaches the client-side caching system of claim 9, wherein the resource is a web page located at a URL, the correct version is the last version of the resource, and the client is a web browser with a browser cache (col. 4, lines 10-15).

Regarding claim 11, Jacobs teaches the client-side caching system of claim 10, wherein the request and the response are HTTP compliant, the response is a relatively small non-displayed page, the cache control object is a cookie in a response header, and the client-side script is in the entity body of the response (col. 4, lines 25-36).

Regarding claim 12, Jacobs teaches the client-side caching system of claim 9, wherein the client-side script that appends the cache control object to the request is embedded in a displayed page (col. 8, lines 10-16).

Regarding claim 13, Jacobs teaches the client-side caching system of claim 9, wherein Internet protocols define communication between the client and the server, and the correct version is the last version of the resource (col. 4, lines 10-36).

Regarding claim 14, Jacobs teaches the client-side caching system of claim 11, wherein the server sets the cookie value by determining the last modified time of each page in the same class as the page which is the subject of the request, and sets the cookie value to the maximum value of the last modified times (col. 4, lines 10-36).

Regarding claim 15, Jacobs teaches a method of client-side caching in a server, comprising:

receiving a client request for a web page; and

inserting a cookie in response to the client request, wherein the cookie value represents the last version of the web page, wherein the cookie value is attached to the client request for the web page such that the client automatically re-requests the web page with the appended cookie value so that if the most recent version of the web page is in the client cache, the web page is retrieved from client cache rather than from the server, and if not, the web page is retrieved from the server (col. 4, lines 10-54).

Jacobs fails to teach the limitation further including a script sent to a client and the use of client-side script that automatically re-requests a resource.

However, Gao teaches a script sent to a client and a client side script that automatically requests updated data (paragraph 47-49).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Jacobs in view of Gao to use a script sent to a client and the use of client-side script that automatically re-requests a resource. One would be motivated to do so because it is more efficient for the script to run on the client.

Regarding claim 16, Jacobs teaches the method of claim 15, further comprising determining the last modified time of each web page in the same class as the web page

which is the subject of the request, and setting the cookie value to the maximum value of the last modified times (col. 4, lines 10-36).

Regarding claim 17, Jacobs teaches the method of claim 15, further comprising:
reviewing the extension of the requested web page to determine run time
environment;

loading the run time environment; and

updating a database with information from the client request (col. 4, lines 10-36).

Regarding claim 18, Jacobs teaches a method of client-side caching in a
browser, comprising:

presenting a user selection for a web page at a URL; and

receiving a server response including a cookie, wherein the cookie value
represents the most recent version of the web page, the cookie value attached to the
URL and requests the web page with rewritten URL of the URL with the appended
cookie value so that if the most recent version of the web page is in the browser cache,
the web page is retrieved from the browser cache, and if not, the resource is retrieved
from the server (col. 4, lines 10-54).

Jacobs fails to teach the limitation further including a script sent to a client and
the use of client-side script that automatically re-requests a resource.

However, Gao teaches a script sent to a client and a client side script that
automatically requests updated data (paragraph 47-49).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Jacobs in view of Gao to use a script sent to a client and the use of client-side script that automatically re-requests a resource. One would be motivated to do so because it is more efficient for the script to run on the client.

Claims 19-22 do not teach or define any new limitations above claims 1-4 and therefore are rejected for similar reasons.

Response to Arguments

3. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Pat. No. 6,834,294 to Katz

U.S. Pat. No. 6,757,705 to Pardikar et al.

U.S. Pat. No. 6,327,608 to Dillingham

U.S. Pat. No. 6,226,642 to Beranek et al.

U.S. Pat. No. 6,178,461 to Chan et al.

U.S. Pat. No. 6,026,474 to Carter et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AVI GOLD whose telephone number is (571)272-4002. The examiner can normally be reached on M-F 8:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/A. G./
Examiner, Art Unit 2457

/ARIO ETIENNE/
Supervisory Patent Examiner, Art
Unit 2457